

CHM 1470-

Density Experiment Report.

Group Members: 1] Manideep Thalla
2]

Date ÷ 1-15-2025

Instructor ÷ Timothy Domanski

Lab Section ÷ 230

Manideep Thalla.

Grading - Density Experiment

Section	Possible Points	Earned Points
Data/summary Page	16	
Hand- Drawn Graph	10	
Computer-Generated Graph	10	
Total	36	

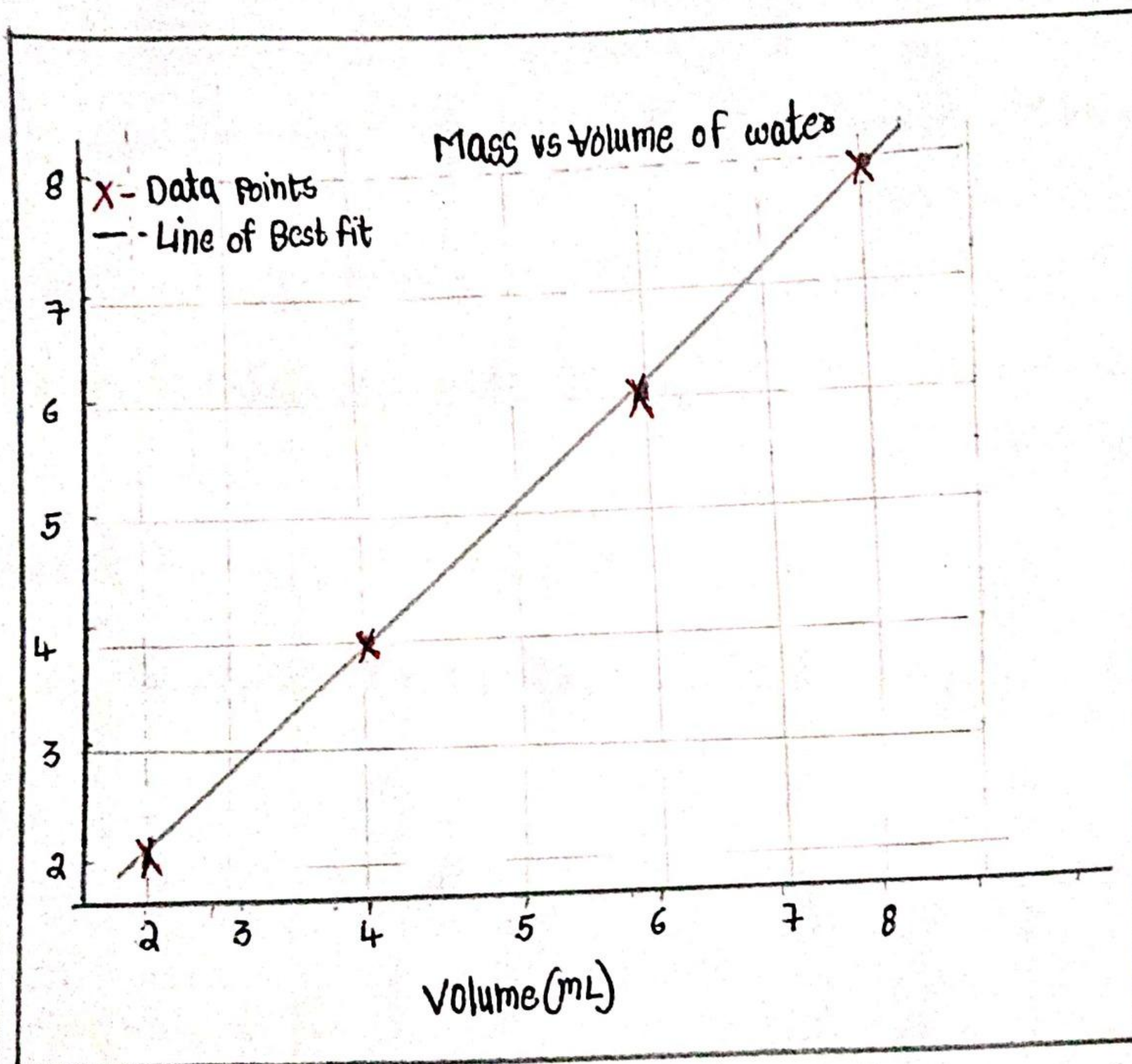
Data Summary Page.

Volume (mL)	Mass (g)
2	1.98
4	4.01
6	5.99
8	8.02

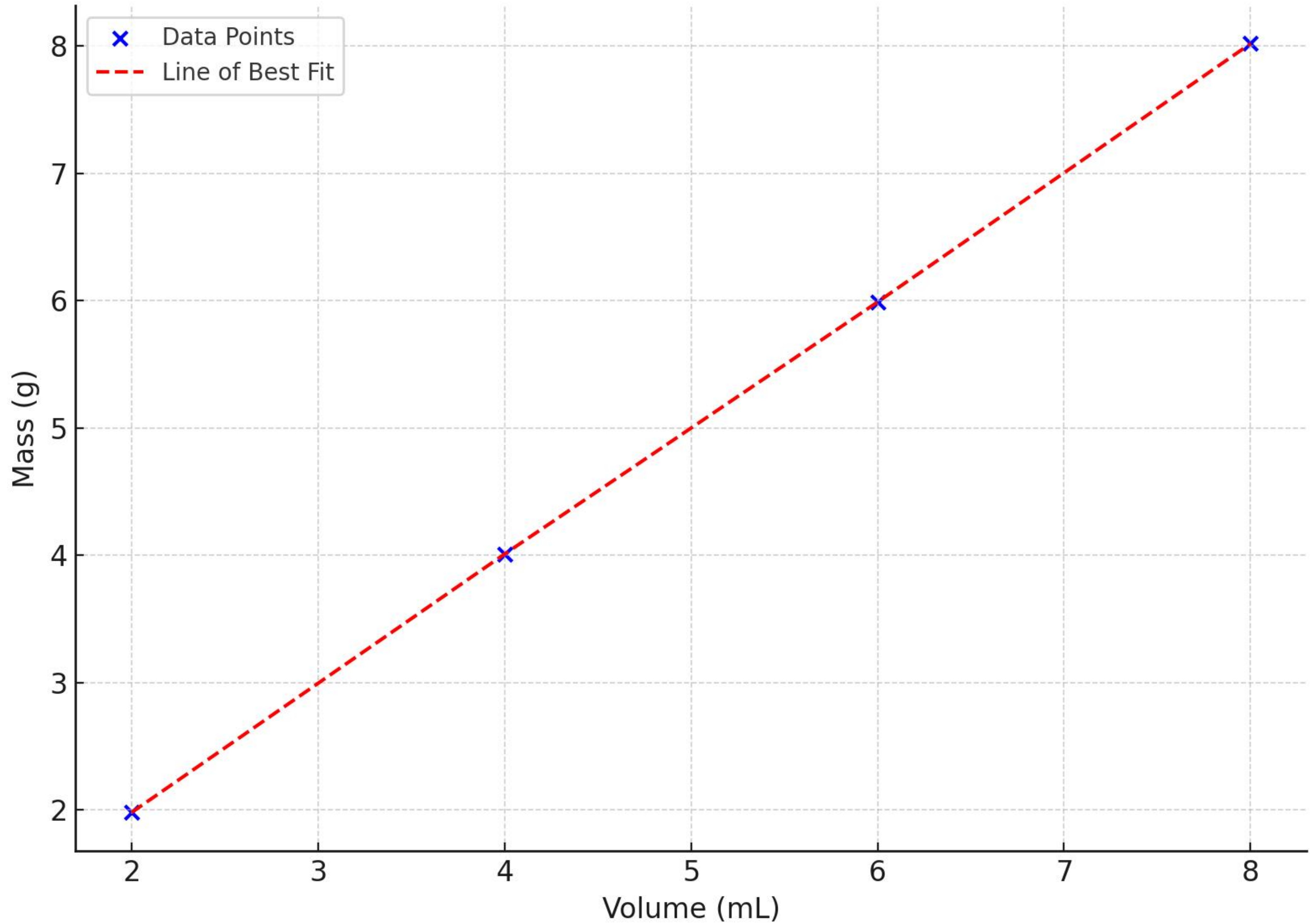
Summary of Findings

- Slope of Line (Density): 1.00 g/mL
- Y-Intercept: $\sim 0 \text{ g}$ (represents initial mass at zero volume)
- Equation of Best Fit: $Y = 1.00x$
- Predicted Mass for 10.0 mL : 10.0 g

Hand-Drawn Graph



Mass vs. Volume of Water



Post-Lab Questions and Answers

1] What does the slope of the line represent?

→ The slope represents the density of water (Mass per unit volume)

2] What does the y-intercept represent?

→ The y-intercept represents the mass of the container when
- Volume is zero.

3] Predict the mass for a volume of 10.0 mL:

→ Using the equation $y = 1.00x$, the mass is 10.0 g.